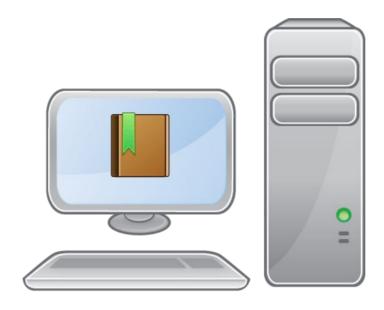
# AWIPS Reference Training Plugin (Just in Time Training Plugin)



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### **History of the project**

- Originally purposed at 2015 NOAA Satellite User Readiness Meeting
- Prototype developed at NASA SpoRT
- Tested at OPG Spring 2016
- Development moved to MDL with partnership with WDTD

# **AWIPS**

#### What is AWIPS?

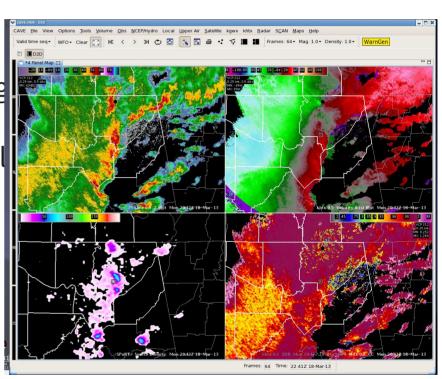
- Advanced Weather Information Processing System
- Ingest, visualization, forecast creation tool of National Weather Service

#### What is EDEX?

Ingest, and Backend of AWIPS system

#### What is CAVE?

Visualization portion of AWIPS



#### What is VLab?

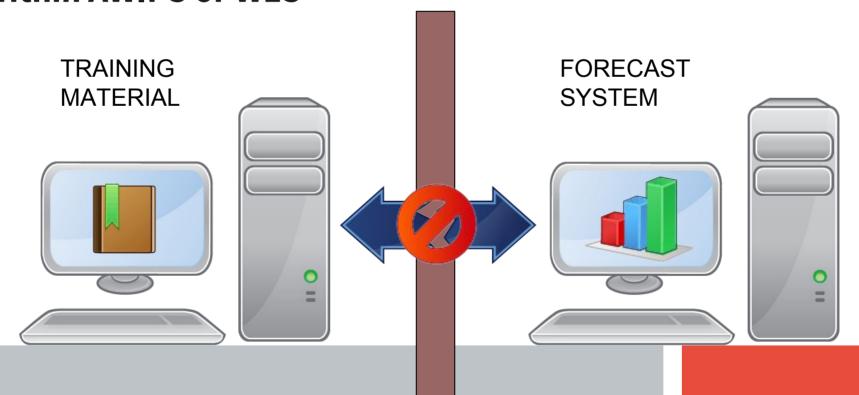


# Virtual Lab Development Services (VLDS) Virtual Lab Collaboration Services (VLCS)

- VLCS uses platform called Liferay
- VLCS supports communities through wiki, forums, document libraries, blogs, and web content.
- VLCS supports science sharing and training

#### Need

- Currently forecasters have different systems for composing the forecast versus reference and training material
- No method to lookup training on a meteorological product within AWIPS or WES



# Why is this a problem?

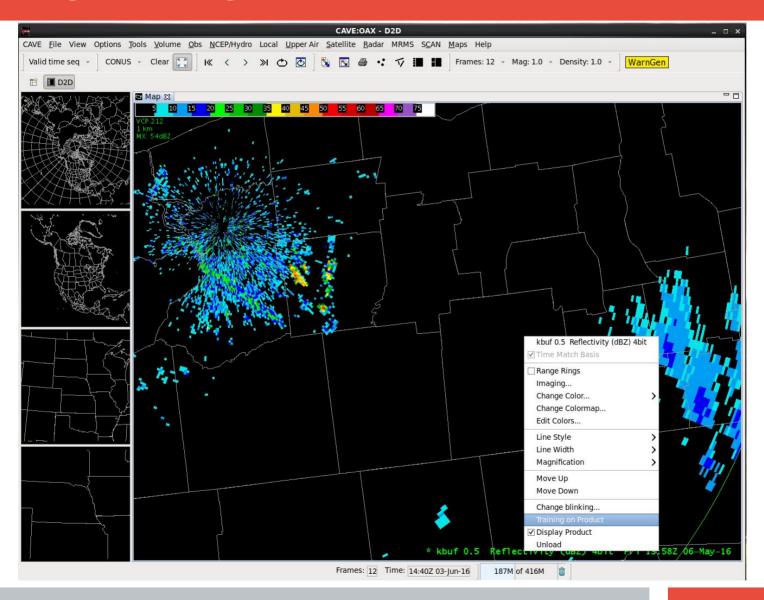


- Warning Event Simulator (WES)
  - Train how you work
  - Train on the system you use to do your work
- Current system does not have integrated reference
- Having material on decision making system allows closer comparison
- Currently no easy way to search available training
- Training is spread across various locations
- Reference material for less frequent applications is sometimes hard to find

#### Other issues to address

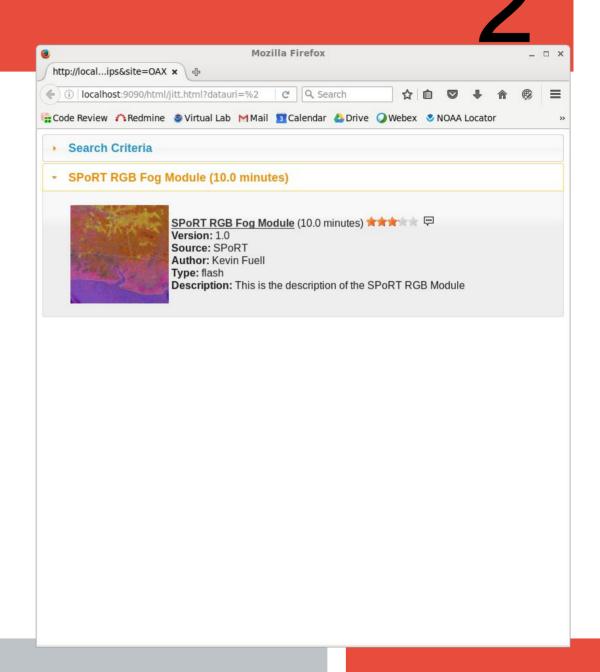
- Don't want to impose another set of training development tools
- Some materials are only regional or locally useful
- Need to provide a way for materials to be reused
- Provide feedback on materials

# **Accessing Training on a Product**

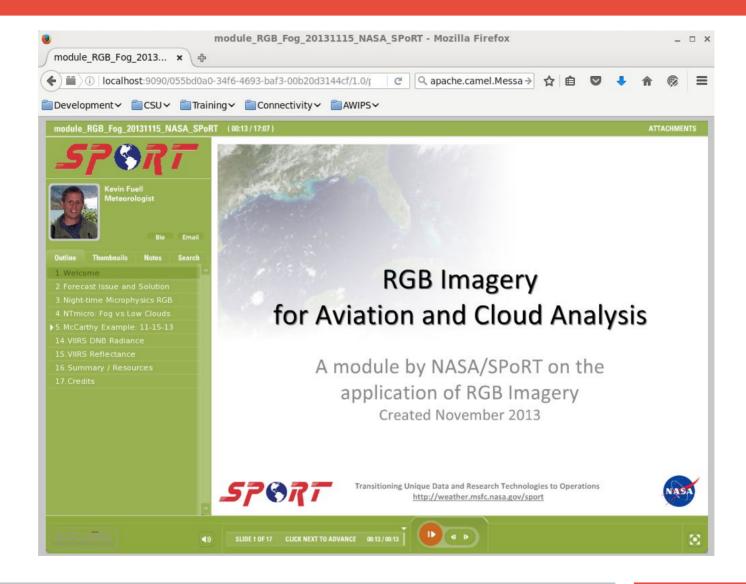


#### **Search Results**

- Results are ordered by match score
- Results are accessible from AWIPS
- Material can be rated and commented upon



### **Training Material**



# What is happening behind the scenes?



#### **Benefits**



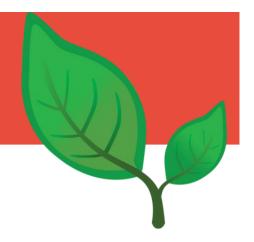
- User initiates the search, but can change the parameters
- Sorting of material is various ways, such as:
  - Keyword matching
  - By length of training
  - Source
- Crowd sourcing
  - Comments
  - Rating

# **Evaluation at Operations Proving Ground Spring 2016**



- (AWIPS Reference) Just in Time Training Plugin was integrated with new products for RGB satellite data
- Forecasters worked as in real-life forecasting
- Forecasters were shown how to use the plugin to access training and reference material
- Resounding success
- Forecasters asked how they could get this plugin at their site ASAP

#### **AWIPS Integration**



- Software was delivered with 16.4.1
- Development of VLab Interface is ongoing
- Appearing in offices in early Winter 2016 (currently scheduled for 12/8/16)

### How do training/reference developers add content?

#### Once VLab integration is deployed...

- 1. Training developers will create training/reference content on VLab
- 2. Then create fill in a web page with some information about

the training

- a. Title
- b. Description
- c. Keyword tags
- d. Duration
- e. Source
- f. Thumnail

### **Other Interesting Features**

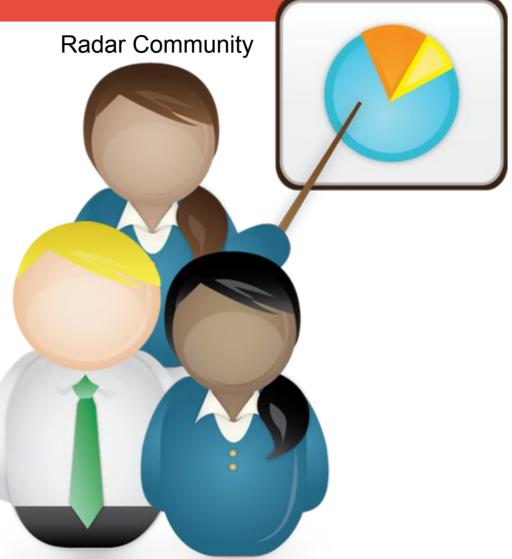


#### Training can be managed within Communities in VLab

- Geotagging training
- Ratings
- Comments
- Versioning
- Flexibility

# Materials can be managed in communities



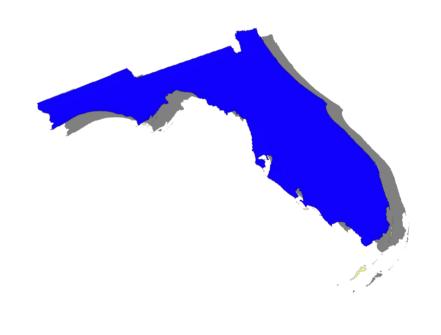


# **Geotagging Materials**

# Materials for Southeastern US may or may not be helpful in Alaska?

Searches contain view extent





#### **Ratings and Comments**

- Use VLab existing rating and comment system
- Provides feedback to other users
- Provides feedback to training/reference developers





### **Versioning and Flexibility**

- VLab automatically has versioning
- Material developers can easily provide updates
- Material developers can adjust tags
- Users can view inside and outside of AWIPS

# **Questions**

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